

# NEWSLINE

Published weekly for employees of Lawrence Livermore National Laboratory

Friday, March 14, 2003

Vol. 28, No. 10



## FROM THE DIRECTOR'S OFFICE

BRUCE GOODWIN

### Intense competition of ideas with respect for individuals

*Director's note: Senior management recently unveiled a set of values for the Laboratory. Each value will be discussed in a Director's Office column. Today, Bruce Goodwin, AD for Defense and Nuclear Technologies, looks at the sixth value — intense competition of ideas with respect for individuals.*

For 50 years, our Laboratory has succeeded spectacularly because we are innovative and, by that innovation, have changed the world. We innovate because we are intensely competitive intellectually. To serve the nation, this constructive competition, from Polaris to fusion ignition, has kept and must continue to keep us at the technical cutting edge.

Destructive competition, however, dulls the edge. Though practiced by only a few, many of us have seen and some have been the unlucky targets of this dark form of competition. I call it "combat physics," but it could also be called "combat engineering," "combat chemistry," etc. At best, it is bad mannered, inconsiderate behavior; at its worst, it is unprofessional conduct, which damages the science conducted at the Lab.

While likely worse than most examples of combat physics, my most memorable (and exasperating) experience with it happened shortly after I arrived at the Lab. I had finished an analysis of a singularly interesting nuclear test failure. Having worked a year to simulate the observed, salient diagnostic measurements and having bracketed the credible uncertainties in the test, I submitted my analysis to the design physics conference. My paper was accepted for oral presentation. Subsequently, I was notified that, at the request of the test designer, my paper should be presented as a poster session so that we could have "more complete discussions of the technical detail." I agreed because I wanted a technical dialogue.

However, when the poster session began, the designer of the failed test was positioned

See **VALUES**, page 8

## East Ave. security upgrades to start

By Don Johnston

NEWSLINE STAFF WRITER

Construction work in preparation for controlling access to East Avenue between Vasco and Greenville Roads will begin in the next few weeks.

Closing the stretch of East Avenue between Lawrence Livermore and Sandia national labs to the general public and controlling access is scheduled to begin this summer after the completion of new control point facilities and road improvements.

"At a time of heightened security nationwide, East Avenue security enhancements will provide an additional layer of protection to the already robust security posture at both laboratories," said Don Wentz of LLNL's Safeguards and Security Program.

A design developed jointly by LLNL and Sandia will create vehicle and pedestrian control entrances at both the Vasco Road and Greenville Road ends of the East Avenue corridor.

The project will consist of widening portions of

See **EAST AVE**, page 8

## Harold Agnew recalls early days of Los Alamos

By Bob Hirschfeld

NEWSLINE STAFF WRITER

It was shortly after World War II ended. An FBI agent knocked on the door and demanded that Harold Agnew turn over a classified document.

Agnew didn't believe he had anything secret, but finally located a Kodachrome 35mm slide showing him standing in front of a Quonset hut on a Pacific atoll, holding a small lunchbox-sized package. He volunteered that this might be what the agent was looking for.

"That's it," said the FBI agent. "I need that slide."

But Agnew, realizing the photo's historical value, didn't want to surrender it. "How about a compromise?" he asked. With the agent's permission, he carefully scratched away the surface of the slide, until the secret box was no longer visible.

The G-man left satisfied, not realizing Agnew still had a similar black and white photo in which the box could be clearly seen.



BOB HIRSCHFELD/NEWSLINE  
Harold Agnew

Why was the box of such interest? It clearly showed the box containing the core of the atomic bomb the United States was soon to drop on Nagasaki.

Agnew recounted the incident Tuesday to a receptive audience at the LLNL Director's Distinguished Lecturer Series.

Now semi-retired, Agnew headed Los Alamos for nearly a decade in the '70s, after playing a key role in the Manhattan Project. He had been recruited while a senior at the University of Denver.

With great affection, Agnew described working alongside Enrico Fermi. In 1942, he

was assigned to work at Columbia University, assisting in the development of "the pile" which ultimately led to the first self-sustaining, controlled nuclear chain reaction at the University of Chicago.

But it wasn't entirely theoretical scientific work. Agnew had to shovel tons of the graphite required for the experiments. "I hated handling the graphite," he

See **AGNEW**, page 7

## Diagnostic test helps contain fowl disease

By Stephen Wampler

NEWSLINE STAFF WRITER

Newly developed rapid diagnostic assays to detect exotic Newcastle disease developed by a partnership of researchers at the Laboratory and other institutions have "significantly aided" containment of the poultry disease.

That's the view of professor Alex Ardans, director of the California Animal Health and Food Safety Laboratory based at the UC Davis School

of Veterinary Medicine.

Design and development of the assays have been done by a team from the Laboratory, the California Animal Health and Food Safety Laboratory (or CAHFS) at UC Davis and the U.S. Department of Agriculture.

At the time of the outbreak of exotic Newcastle disease last October in California, available assays to identify the disease required six to 12

See **DISEASE**, page 5



Sandia's  
Hagengruber  
honored  
– Page 2



Hall of Fame  
award for  
Max and Raber  
– Page 3



A week of UC  
testimony  
– Page 7



## LAB COMMUNITY NEWS

### Weekly Calendar

Monday  
**17**

B Division's **spring book sale** returns today through Friday, 11:30 a.m. to 1:30 p.m., in Bldg. 132, room 1200 (Q- or L-cleared access only). There are lots of kid's books and science

fiction, plus cookbooks, health, self-help, history, and various other nonfiction and fiction books. All proceeds are used to buy Christmas gifts for needy children. Each year the sales help agencies in Alameda, Contra Costa and San Joaquin counties, plus individual families in need. Contact: Lynn Groves, 2-1684.

Tuesday  
**18**

A representative from **Fidelity Investments** will be on-site to meet with employees today and Wednesday and April 1-2. Fidelity Investments are available to UC's

403(b) participants in addition to the UC-managed investment funds. To make an appointment, contact Fidelity at 1-800-642-7131. When calling, be sure to specify you are an LLNL employee.

Up  
Coming

The **LLNL Retirees Travel Slide Group** will meet at 2 p.m. on Tuesday, March 25 in the Livermore Library meeting room. Richard Hasbrouck will present "Three Views of Mexico: Yucatan, Baja and Oaxaca."

Views of Mexico: Yucatan, Baja and Oaxaca."

...

If you have an upcoming presentation, the Employee and Organization Development Division is offering a class that will help you brush up on your presentation skills. "**Presentation Delivery — The Next Level**" (ED7340-A) builds on the techniques taught in Presentation Delivery, adding another level of experience and tools to create presentation "magic." This course is scheduled for March 24 at the Training Center (Trailer 1879) from 8:15 a.m.-4:30 p.m. Cost is \$525-650, depending on the number of participants. To register, sign up on-line at [https://www-ais.llnl.gov/llnl\\_only/docs/hr/train](https://www-ais.llnl.gov/llnl_only/docs/hr/train), or contact EODD at 2-4842.

...

"Using **LANL's ASCI-Q System**" is a two-day workshop scheduled for March 24-25. It will cover essential topics related to using LANL's ASCI-Q system. It is primarily intended for Livermore and Sandia-Livermore researchers who already have ASCI-Q accounts or who will soon have an ASCI-Q account. Enrollment is limited to 40 persons with first priority being given to those who have current/pending ASCI-Q accounts. This is a lecture-oriented workshop (no hands-on exercises). For more information, including registration, see: <http://www.llnl.gov/computing/training/2003.03.24-25.html>

...

Registration is still available for the "**Comprehensive Retirement Planning Workshop**" to be held April 3-4 (PS8023) and "Intermediate Investment Planning Workshop," April 11 (PS8022). Space is limited, so register early via the <http://www.llnl.gov/llnl/02employment/benefits/benefits.htm>

### SMC honors Sandia's Hagengruber



MICHAEL ANTHONY/IBIS

From the left: Deputy Director for Operations Glenn Mara; NIF Programs Associate Director George Miller; Roger Hagengruber, senior vice president for special projects at Sandia National Laboratory, Albuquerque; NAI Associate Director Wayne Shotts and Lab Executive Officer Ron Cochran. The Laboratory's Senior Management Council last week honored Hagengruber, who is soon to retire. He spoke to the council and was presented with a medallion by Mara.

### University Relations seeks collaboration proposals

Laboratory researchers are encouraged to contact their university counterparts as to the opportunity to submit proposals for funding by the University Relations Program (URP).

URP funds collaborations between LLNL researchers and faculty from campuses of the University of California and other universities that have the potential for unique collaborations.

Major objectives of the University Collaborative Research Program (UCRP) component of the URP are to encourage original work that has the potential to significantly impact research in areas of LLNL missions and to train future Laboratory employees and faculty members with specialization in these areas.

The UCRP Website (<http://www.llnl.gov/urp/ucrp>) provides the necessary information as to how to submit proposals to one of the six URP

Institutes for FY04 funding up to \$40,000. Deadline is April 15, 2003.

For additional information contact Harry Radousky at [radousky1@llnl.gov](mailto:radousky1@llnl.gov).

### RETIREMENTS

#### Ozell Gilmore and Dave Hole

Ozell Gilmore and Dave Hole, are retiring from the Laboratory. Health Services is sponsoring a retirement potluck for the couple on Wednesday, March 19 from 11:30 a.m.-2 p.m. in the lunch room in Bldg. 663.

Gilmore, who is registered nurse, has worked at the Lab for more than 14 years. Hole, who joined the Lab in 1979, is a senior engineering associate in the Laser Science Engineering Division.

To attend the luncheon, RSVP to Amy at 3-9977 for potluck assignments.

### IN MEMORIAM

#### Loretta Huber

Loretta Ann Huber, a computer scientist in the NAI Directorate's Computing Applications Division, died March 7 at Memorial Medical Center in Modesto. She was 50.

Huber was a native of New Jersey and lived in Modesto 17 years. She had worked at the Lab for approximately nine years.

"Her technical skills were excellent and she was a great programmer," recalled Bill Aimonetti, her supervisor. "She will be greatly missed."

Huber was active in Girl Scouts and was a troop leader. She was a member of Our Lady of Fatima Catholic Church.

Survivors include her children, Mary and Laura; her mother, Eleanor; three brothers and four sisters.

Services were held Thursday. Contributions in her memory may be made to the American Cancer Society.

### Newsline

Newsline is published weekly by the Internal Communications Department, Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

#### Contacts:

Media & Communications manager: Lynda Seaver, 3-3103

Newsline editor: Don Johnston, 3-4902

Contributing writers: Elizabeth Campos Rajs, 4-5806; David Schwoegler, 2-6900; Anne M. Stark, 2-9799; Stephen Wampler, 3-3107; Gordon Yano, 3-3117. For an extended list of Lab beats and contacts, see <http://www.llnl.gov/llnl/06news/NewsMedia/contact.html>

Designers: Denise Kellom; Julie Korhummel, 2-9709

Distribution: Mail Services at LLNL

Public Affairs Office: L-797 (Trailer 6527), LLNL, P.O. Box 808, Livermore, CA 94551-0808  
Telephone: (925) 422-4599; Fax: (925) 422-9291  
e-mail: [newsline@llnl.gov](mailto:newsline@llnl.gov) or [newsline@llnl.gov](mailto:newsline@llnl.gov)  
Web site: <http://www.llnl.gov/PAO/>

## AROUND THE LAB



LYNDA SEAVER/NEWSLINE

## Newest hall of famers

Lab scientists Claire Max and Ellen Raber were inducted into the Alameda County Women's Hall of Fame during a special luncheon last Saturday in Oakland. Max and Raber were two of nine inductees — Max in the field of science and Raber in the field of environment. More than 400 people turned out for the 10th annual awards ceremony. Max was singled out for her work in adaptive optics, while Raber was honored for her efforts in pollution prevention, waste management, environmental restoration and environmental monitoring and analysis.

## Employee comments sought for proposed performance system

The employee comment period for the new Integrated Performance and Pay Program continues through March 31.

The proposed program is a redesign of the Laboratory's performance management system. The goal is to better align the performance management system with the Laboratory's values, goals and business needs. It also reflects input from the employee survey.

A summary of the program was presented to employees last week. To review the program see the Web at <http://www-r.llnl.gov/IPPP>. Comments may be submitted by e-mail to [performance-management@llnl.gov](mailto:performance-management@llnl.gov), or to Performance Management at L-711. Comments must be submitted



by March 31.

Below are answers to some questions submitted during the first week of the employee comment period. *Newsline* will continue to carry answers to employee questions as the comment period continues.

**Will supervisors, who also have technical responsibilities, be assessed and ranked both on their supervisory and technical accomplishments?**

Both technical and supervisory goals and expectations should be established at the beginning of the

review period. Accomplishments against the goals and expectations will be assessed on the performance appraisal form and will be used as input to

relative value ranking process.

**How was it decided to have five rank groups?**

The SMC determined that five satisfactory rank groups were an appropriate number to differentiate total contribution and communicate rank group characteristics.

**Is the capability to complete the forms on line being developed?**

On-line automation of the performance appraisal forms is being planned for FY04. This year, the forms will be available on-line as a word document.

**Will all 200 series employees be ranked Lab-wide?**

200 series employees will be ranked directorate-wide. Alignment of the rank and salary of the top contributors across all directorates will be done by senior management. In addition, results of IPPP will be reviewed annually through the Director's Workforce Review.

**Up to what levels will managers/supervisors be evaluated?**

All managers and supervisors will be included in the IPPP.

## Engineering opportunities for the future



FRANK NUNEZ/NEWSLINE

Jeff Williams, left, division leader for the Lab's Laser Science and Engineering Division, NAI Associate Director Wayne Shotts and Engineering Acting Associate Director Jens Mahler take a break during the two-day Engineering conference, "Engineering Opportunities in the 21st Century."

## Brown bag discussions on performance management

Employees are invited to attend one of four special brown bag discussions on the new integrated Performance and Pay Program, which was recently unveiled by Director Michael Anastasio. Two brown-bags will take place Monday, March 17, at noon and 4 p.m. in the Bldg. 543 auditorium.

Another discussion takes place Thursday, March 20, at 7 a.m. in Bldg. 571, room 2301 (this meeting is to accommodate those employees who are coming off late night shifts). A special brown bag discussion for Site 300 employees will take place at noon, March 26, in the Fiddleneck room, Bldg 571. Please note that uncleared red badge employees need to be escorted.

During the discussions, Helen Fong and Jerry Frank of Administration and Human Resources will present an overview of the new Integrated Performance and Pay Program, a schedule for implementation and take employee questions. More information on the new program is also on the Web at <http://www-r.llnl.gov/IPPP>



## NEWS YOU CAN USE

### DDLs presentation looks at the 'weird world' of physics

Nobel Laureate Eric Cornell will discuss "Stone Cold Science: Bose-Einstein Condensation and the Weird World of Physics a Millionth of a Degree From Absolute Zero," as part of the Director's Distinguished Lecturer Series. The talk takes place at 3:30 p.m. Monday, March 24, in the Bldg. 123 auditorium.

As atoms get colder and colder, they become more and more like waves, and less like particles. When a gas of atoms gets so cold that the "waviness" of one atom overlaps the waviness of another, the result is a sort of quantum-mechanical identity crisis, a "condensation" predicted 70 years ago by Albert Einstein. Cornell will discuss how one reaches the necessary record low temperatures and will explain why one goes to the trouble to make this bizarre state of matter.

Cornell received his B.S. from Stanford University in 1985 and his Ph.D. from MIT in 1990. He went to JILA in Boulder, Colo. Since 1992 he has been a senior scientist with the National Institute of Standards and Technology (NIST).

### New INS system to track international students

SEVIS (pronounced SEE-viss), the Student and Exchange Visitor Information System, is the system that the Immigration and Naturalization Service and the Department of State will be using to track international students and scholars in F, J, and M immigration statuses and their dependents, from the time of the production of the initial visa document, to the individual's program completion or departure from the Laboratory.

Immigration Services will host a meeting to explain in detail the changes and the impact non-compliance could have on the Lab's ability to bring J-1 Scholars to LLNL. Gloria Law, J-1 scholar advisor with Services for International Students and Scholars (SISS) at UC Berkeley, will be here to discuss SEVIS and other post September 11 issues that impact the visa process. Law will discuss the current immigration climate and recent changes in the visa issuance process (including the challenges and consequences), and answer questions.

**Tuesday, March 18**

**10–11:30 a.m.**

**Bldg. 123 Auditorium**

Please contact Immigration Services for further information, 3-9756.

## Technical Meeting Calendar

Friday  
**14**

### CHEMISTRY & MATERIAL SCIENCE

"Modeling Anomalous Dislocation Multiplication: A Coupled Atomistic-Dislocation Dynamics

Simulation of Frank-Read Source Operation in FCC Aluminum," by Maurice de Koning. 3:30 p.m., Bldg. 235, Gold Room. Coffee and cookies will be served at 3:20 p.m. Contact: Tom Felter, 2-8012, or Rebecca Browning, 2-5500.

### CHEMISTRY & MATERIALS SCIENCE/ ANALYTICAL & NUCLEAR CHEMISTRY

"Spectroscopy of Fission Products with CHICO and Gammasphere," by Michael Simon, University of Rochester, Rochester, New York. 10 a.m., Bldg. 151, room 1209 (Stevenson). Foreign Nationals may attend if a security plan is on file, which includes Bldg. 151. Technical contact: Christine Hartmann-Siantar, 2-4619. Administrative contact: Bonnie McGurn, 3-2764.

Monday  
**17**

### INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

"Middleware Support for Data Ensemble Analysis," by Joel Saltz, Ohio State University. 10

a.m., Bldg. 451, room 1025 (uncleared area). Contacts: Bill Arrighi (CADSE) 4-5188, or Leslie Bills, 3-8927. For more information see (<http://www.llnl.gov/casc/calendar.shtml>).

Tuesday  
**18**

### PHYSICS & ADVANCED TECHNOLOGIES POSTDOCTORAL PROGRAM FORUM

"Probing Stellar Dynamics

Through Modeling of Chemical Evolution in Stars," by Sylvain Turcotte. 1:30 p.m., Bldg. 123, conference room A (uncleared area). Technical Contact: Ron Soltz, 3-2647, [soltz1@llnl.gov](mailto:soltz1@llnl.gov)

### PHYSICS & ADVANCED TECHNOLOGIES DIRECTORATE-WIDE SEMINAR SERIES

"High Redshift Quasars as a Probe of the

Early Universe," by Robert Becker. 2 p.m., Bldg. 123 conference room A (uncleared area). Technical Contact: Ralph Jacobs, 4-4545, [jacobs6@llnl.gov](mailto:jacobs6@llnl.gov)

Wednesday  
**19**

### ENERGY AND ENVIRONMENT

"Analytical Models of Reactive Transport in Porous Media" by Yunwei Sun. 1:30 p.m., Bldg. 543 auditorium (uncleared area). Contact: Camille Vandermeer, 3-2672 (refreshments will be served).

### COMPUTATION/ICCD MPI TOPICS COLLOQUIUM

"The BlueGene/L Supercomputer: Delivering Large Scale Parallelism" by Jose E. Moreira, IBM T. J. Watson Research Center. 9 a.m., Bldg 451, room 1025 (uncleared area). Contact: Terry Jones, 3-9834.

### INTEGRATED COMPUTING & COMMUNICATIONS DEPARTMENT

Macintosh Technical Seminar Series, featuring Greg Brewer, CEO of Prosoft Engineering. 10:30 a.m., Bldg. 543 auditorium. Contact: Duane Straub, 2-9774, or [straub1@llnl.gov](mailto:straub1@llnl.gov).

### MATERIALS RESEARCH INSTITUTE SEMINAR

"Microscopic Theory of the Induced Torque Anomalies in Metallic Potassium," by Albert W. Overhauser, Purdue. 3:30 p.m., Bldg. 219, room 163. (Badge required.) Technical Contact: Mike McElfresh 2-8686. Administrative Contact: Jody Reyes-Quick 2-1499.

Thursday  
**20**

### PHYSICS AND ADVANCED TECHNOLOGIES/N DIVISION

"f Meson Production in Au-Au Collision at sNN = 200 A-GeV," by Mohammed Muniruzzaman, UC

Riverside. 3 p.m., Bldg. 211, room 227. (Badge required.) Contacts: Ron Soltz, 3-2647, or Pat Smith 2-0920.

Friday  
**21**

### PHYSICS & ADVANCED TECHNOLOGIES/IGPP

"First Results from the 1-Meter Swedish Solar Telescope on La

Palma" By Thomas Berger, Lockheed Martin Solar and Astrophysics Lab. Noon, Bldg. 319, room 205 (uncleared area). Contacts: Michael Gregg, 3-8946, or Sandra Maldonado, 3-0621.

Tuesday  
**25**

### PHYSICS AND ADVANCED TECHNOLOGIES/N DIVISION

"How Reliable is the Random Phase Approximation," Ionel Stetcu, Louisiana State Uni-

versity Department of Physics and Astronomy. 10:30 a.m., Bldg. 211, room 227 (badge required). Contacts: Erich Ormand, 2-8194 or Pat Smith 2-0920.

Wednesday  
**26**

### INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

"Existing and Emerging Approaches for Addressing the Processor Memory Gap,"

by Lenny Oliker, Lawrence Berkeley National Laboratory. 2 p.m., Bldg. 451, room 1025 (uncleared area). Contacts: Jeffrey Vetter (CASC) 4-6284, or Leslie Bills 3-8927.

Thursday  
**27**

### PHYSICS AND ADVANCED TECHNOLOGIES/N DIVISION

"The Emergence and Disappearance of Jets at RHIC," by

Michael Miller, Yale University. 1:30 p.m., Bldg. 211, room 227 (badge required). Contacts: Steve Johnson, 2-6598 or Pat Smith, 2-0920.

**The deadline for the next Technical Meeting Calendar is noon, Wednesday.**

Send your input to [tmc-submit@llnl.gov](mailto:tmc-submit@llnl.gov). For information on electronic mail or the newsgroup [llnl.meeting](mailto:llnl.meeting), contact the registrar at [registrar@llnl.gov](mailto:registrar@llnl.gov).

## NEWS OF NOTE



## Lab's Science on Saturday series begins with focus on biophotonics

The Laboratory's eighth season of Science on Saturday — featuring talks on medical technologies, forensic science and astrophysics — begins this Saturday with "Harnessing Light for Medicine: Creating New Biophotonics Tools for Doctors." The lecture begins at 9:30 a.m. at the Amador Theater in Pleasanton.

Lab physicist Duncan Maitland, along with science teacher Susan Daly of the Athenian School in Danville, will focus on medical applications of light. Students will learn what light is, where it is currently used in medicine and how it might be used in the future. Maitland will also explain how different characteristics of light can cause everything from bioluminescence (like lightning bugs) to heating of tissues to cure diseases to lasers that create micro-explosions in blood vessels.

Science on Saturday is a five-week series of free 60-minute talks geared toward middle school and high school students. The series, which began in 1996, has proven to be tremen-



dously popular, drawing more than 300 students, their parents and teachers from throughout the Bay Area to each lecture.

This year's speakers represent a wide range of disciplines, including astrophysics, biotechnology, chemistry and planetary physics.

The series is co-sponsored by Livermore Laboratory and the Livermore chapter of Sigma Xi, the Scientific Research Society.

The free lectures, which cover a wide range of topics from forensic science to massive galaxies, will be offered every Saturday, March 15 through April 12, from 9:30-11:15 a.m. All of the talks will be at the Amador Theater, 1155 Santa Rita Road in Pleasanton.

Registration is at the door and seating is available on a first-come, first-served basis, with priority given to students.

For more information on Science on Saturday and directions, check the Website (<http://education.llnl.gov/sos>) or email the Lab's Science and Technology Education Program at [education@llnl.gov](mailto:education@llnl.gov).

Here is the complete schedule for the 2003 "Science on Saturday" lecture series:

- March 15: "**Harnessing Light for Medicine: Creating New Biophotonics Tools for Doctors,**" by LLNL science researcher Duncan Maitland and science teacher Susan Daly of Athenian School, Danville.

- March 22: "**Catching the Bad Guys: Forensic Science and its Application to National Security,**" by LLNL scientist Glenn Fox and biology teacher Kirk Brown of Tracy High School.

- March 29: "**How Astronomy Has Influenced Ancient Cultures: The Study of Archeoastronomy,**" by LLNL scientist Dave Dearborn and teacher Josh Holtzman of Monte Vista High School, Danville.

- April 5: "**Building Molecules to Kill Cancer: Radiation Therapy,**" by LLNL physicist Christine Hartmann-Siantar and science teacher Sarah Palmer, Tri-Valley Regional Occupational Program.

- April 12: "**BRIGHT Lights, BIG City: How the Most Massive Galaxies and Black Holes Live Together,**" by research astronomer Wil van Breugel of LLNL's Institute of Geophysics and Planetary Physics, and science teacher Lawrence Dean of Athenian School.

## DISEASE

*Continued from page 1*

days, according to Ardans.

A key signature that allows identification of the virus within four hours of receiving the sample was facilitated by a genomic-approach developed by an eight-member LLNL team, led by Paula McCready.

"The ongoing collaboration between LLNL and UC Davis doesn't only benefit the state of California, but also the nation," Ardans said. "The Livermore approach to developing assays for microbial diseases is being embraced nationwide."

The rapid tests are being used to assist state and federal exotic Newcastle disease task force personnel in disease detection and control efforts.

One assay, developed by LLNL and UC Davis researchers, distinguishes whether poultry actually have exotic Newcastle disease or simply have the vaccine virus. A second assay, developed by UC Davis, U.S. Department of Agriculture and LLNL researchers, identifies if exotic Newcastle disease is present.

In early March, the assay used to identify whether poultry have been vaccinated or carry exotic Newcastle disease, saved the destruction of a commercial flock that could have cost, in control and indemnity costs, almost \$1 million, said Sharon Hietala, professor of clinical immunology for UC Davis.

Currently, seven counties, all in Southern California, are under quarantine, with a prohibition on moving poultry such as chickens, turkeys, geese, partridges and other birds.

During the past five months, almost three million commercial egg-producing chickens have been euthanized in California because of exotic Newcastle disease. Additionally, more than 100,000 game birds and backyard poultry also have been euthanized.

Ardans believes federal and state agriculture officials are making headway in the fight against exotic Newcastle disease. During the past two weeks, the number of new cases of infected "backyard birds" seems to be decreasing in some areas, he noted.

A highly lethal viral ailment, exotic Newcastle disease affects poultry, causing respiratory problems and lethargy. Chickens are particularly sus-

ceptible to the disease and usually die within a few days.

"With the faster detection method, we can rapidly identify the affected animals and isolate them before the disease spreads further," McCready said.

"If an outbreak is not quickly contained, it spreads rapidly, affecting the state's poultry industry and its ability to trade with other states and countries."

Laboratory researchers were contacted by CAHFS on Oct. 13, and within days had generated possible target signatures for development of a rapid assay.

LLNL biomedical scientist Evan Skowronski worked with CAHFS staff at UC Davis over the next two months to optimize performance of the assays and pioneer ways to rapidly process hundreds of samples per day.

"Evan was instrumental in sequencing the first viruses isolated from commercial flocks to confirm the accuracy of the assay," Hietala said. "Evan worked through the night, and more than one weekend to provide timely sequence analysis of critical cases during the Christmas holiday season."

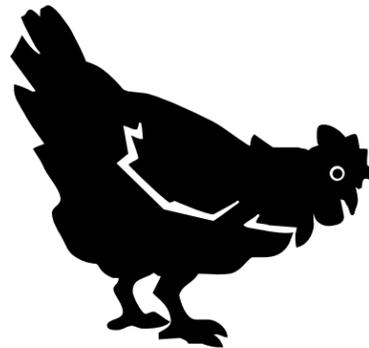
In addition to disease identification in affected birds, the rapid test is now being used routinely in surveillance efforts in unaffected commercial flocks to assure their disease-free status.

These efforts involving nearly 600 different poultry houses will continue after the outbreak is contained as a disease surveillance program to demonstrate that the state is free of the disease.

"We were able to make a rapid response to an outbreak of an emerging disease," said McCready, who is associate program leader for biology in the Chemical and Biological National Security Program.

The team's computations group, led by Tom Slezak, used unique software developed by Laboratory researchers to identify a target sequence to distinguish the highly virulent forms of the virus from other forms.

This has been extremely useful in the rapid differentiation of exotic Newcastle disease virus from closely related Newcastle disease viruses used in



vaccines or those causing less severe disease.

"To the best of our knowledge, this is the first working rapid assay for Newcastle disease to be adapted for routine diagnostic and surveillance use," McCready said.

The development of this exotic Newcastle disease signature and the additional work required to ready it for use was paid for with Laboratory Directed Research and Development money, a Laboratory

fund for cutting-edge research.

In addition to McCready, Skowronski and Slezak, other members of the Laboratory assay development team include bioinformatics scientists Beth Vitalis, Tom Kuczumski and Shea Gardner, along with biomedical scientists Shanavaz Nasarabadi and Jason Olivas.

**Need Ergonomic Info?**  
**Call 2-ERGO**





## AUTOMOBILES

1988 - Ford Econoline Van, 135K, \$3,500 OBO, runs great, TV VCR, seats 7, newer tires, two tanks, custom attributes, Oakland Raider Colors. 925-449-3152

1992 - Honda Civic Si hatchback black 255K. New clutch, exhaust manifold, O2 sensor, and brand spanking new tires. 35 mpg, air, sunroof. \$2350 obo 925-513-6633

1993 - Mazda Miata, white, 61k miles, garaged, excellent condition, all records, recent full 60k service, new timing belt, new water pump 925-455-1882

2001 - MR2 Spyder, Leather, LoJack, Silver Conv., Fully Loaded - MUST SELL!! \$19,900/OBO 925-634-8162

1994 - Honda Civic EX. 140 miles. \$5500 obo 925-895-8868

1999 - Acura Integra, GS, 2D, PW&L, AC, Moonroof, Silver, 17in Rims/tires, Supercharger +MORE, price neg 925-606-8614

1967 - Camaro. Award-winning, fully-restored beautiful RS coupe, Montego Blue, 5-speed, 327. Fact. A/C, PS, PDB. \$21,850. 925-634-1606

1998 - Ford Mustang, Silver, V-6, auto-trans., spoiler, custom wheels, CD stereo, tinted power windows, keyless alarm entry, excellent condition, \$6,500 obo. 925-964-0534

1994 - Mazda MX-3, white 5-sp, 4-cyl., new tires, CD, tinted windows, dual air bags. 150K miles, \$3,000 OBO. 925-784-9434

1993 - Mazda MX-6, 5-speed, sunroof, CD, good condition. \$3500/OBO. 925-485-1988

1992 - Honda Accord Ex Sedan - moonroof, air, PW/PL/ABS. Well maintained - 195K miles, \$4200 below KBB 925-447-1428

1997 - Eldorado, beautiful condition, low miles, new tires, all power, Bose sound system, slack CD, security system. Must see. OBO 510-582-2938

2000 - 2000 FORD ESCORT, 4 Door, 2.0 Liter, 4 Cylinder, Automatic Transmission, Air Conditioning, Power Steering, Power Brakes 23,500 mi, \$6760 OBO 925-447-2466

1992 - Ford explorer 4x4, electric hubs, doors, windows and seats. Runs well. \$2700 209-833-6452

1981 - CORVETTE, RARE, 4 speed, 35,000 original miles, mint condition, \$22,000, OBO 925-373-1504

97 - Honda Accord 2 door coupe EX, auto, full power, sun roof, tan leather int. \$8,500 obo 209-678-5884

1995 - Buick Park Avenue Ultra, loaded and in excellent condition, 157k miles, \$4000 OBO 510-523-2015

## AUTOMOBILE ACCESSORIES

15 inch Five Bolt Pickup TRUCK WHEELS, steel, Ford or old Jeep pattern, 2 for \$25 925-447-7070

## BICYCLES

Folds up for storage and traveling. Called free spirit, Sears. Like new \$15.00 925-447-6099

Boys bicycle, 13 inch, needs new tires. \$10. 925-454-0877

Boys bicycle, 20 in., hand brakes. \$30. 925-454-0877

Boys age 6-9 bike, 20 inch frame, Gary Fisher Shortcut, great condition, \$75. 925-924-0233

Enduro Pro Bike 2001, full suspension, disk brakes, speedometer, 28 speed, bought new 3,500 asking 1,700 or best offer. Like new specialized Brand. 209-825-5458

1999 Klein Mantra Race. Full suspension, Carbon Fiber main frame/Shimano XT&XTR brakes and gears/Pro taper handle bars. Great condition \$1,200 925-443-7433

# CLASSIFIED ADS

## BOATS

Kayak Old town 160T, Two person kayak with rudder \$900 209-824-1076

1992 Ski Centurion Competition Ski Boat-- Excellent Condition! Only 260 hours with new rudder/housing (350 Indmar motor) 12,000 obo 209-835-3938

## ELECTRONIC EQUIPMENT

PS2 and 7 Games comes with DVD remote original box... \$300 ATV2, 007, metal gear solid, aggressive inline, etc. 925-245-1560

Dell Laptop, 62 MB RAM, 10 GB HD, Celeron PII, Certified Windows 2000, plus a Brand New 802.11b wireless PC Card (D-Link AirPlus DWL-650+), \$700 925-479-9047

Electronic dartboard & cabinet, 8-player, 19 games. New, paid \$90. \$50. 925-648-0671

Ink Cartridges for Epson 777. One black in original carton, plus one ea barely used black and color. Cost ca \$25 ea; all for \$15. 925-447-2905

GAMEBOY COLOR two systems Excellent condition includes transfer cable \$40 each OBO 925-447-2697

## GIVEAWAY

FREE (2) Gas BBQs u-haul. Both work great! 925-449-6166

Two Lawnmowers. Large outdoor TV antenna. 209-824-2177

Metal day bed frame with trundle. Does not include mattresses. Cream colored. You haul. 925-456-3010

Commodore 16 learning machine, 5800 DOT MATRIX Printer, VTI - (431-E) PC and Color Monitor 209-830-1821

Wurlitzer Organ w/bench. Wood cabinet in good shape; electronics need repair. U-haul from Livermore (VERY heavy) 925-447-2905

## HOUSEHOLD

Oak desk-double pedestal, 5-drawer, formica top, great condition - original lab desk \$100.00 or BO. 925-449-9255

Sofa, approx. 80in lg, hardwood trim on frnt., off white mix color fabric, good shape; can deliver to Liv or Tracy \$75, call aft-6pm please 209-832-2056

Step 2 Snooze n Cruise Toddler bed \$85 Magic Chef refrigerator with icemaker \$125 209-824-2177

Oak home entertainment center for tv, stereo, storage. Approx 60 inches high x 72 inches wide. Heavy, like new condition. \$400. 925-456-0483

AIR CONDITIONER, 7000BTU, Like new \$90 OBO 925-373-1686

Coffee table, 60x24, and two end tables, 27x27, with cabinets. Beautiful oak and fruitwood finish. All like new. \$199.00 925-447-6670

Two Marble Double Sink Tops, 21x92 beige swirl & 21x82 gold swirl. White cabinets too, \$45 each. Solid Douglas fur entry door-\$45. 925-938-4136

Bedroom set, Black w/gold trim. Long dresser, Tall dresser, 2ea. end tables. Great condition. \$350. OBO 925-443-1387

Coffee table and end table. Medium oak color with beveled and smoked glass tops. Both have lower shelf. \$125.00 925-447-7160

Bunkbeds-twin size solid wood, bookcase headboard, bottom drawer storage. Great condition. Asking \$175.00 925-447-2068

TODDLER BED, solid wood, natural finish. Includes Simmons maxipedic mattress. Excellent condition. \$100. 925-454-0877

Leather sofa and chair, overstuffed, dark brown. \$200. 925-829-0375

Greenhouse, 14ft(W) x 11ft(L) x 10.5ft(H) Lord and Burnham model I-14G, Cost \$10,000 asking \$2,500. You disassemble and transport. 925-828-8939

Wood trundle bed (mats not incl.), exc cond. \$100: Oak coffee table (glass top), \$50. 925-456-8120

Lexus stainless steel coffee commute mug. Brand new, paid \$20. \$10. 925-648-0671

Whirlpool washer&dryer, 3 years old, \$450. Kenmore 25.4 ft3 side/side fridge/freezer, ice-maker/water, one year old, \$750. 925-513-6602

Kenmore washer and dryer. Large capacity 4 yrs old, good shape. \$400. 925-373-3911

Solid Oak 7ft Hutch \$200; Solid Oak Entertainment Center (holds 27inch TV) \$200; Bathroom Oak Vanity w/sink \$75. 209-836-1665

Nail fin window, 5-0 x 5-0, double pane, low e, new \$210, sell for \$100 925-447-5194

Kenmore gas range, Wirlpool Micro/Hood combo and dishwasher up for grabs. \$75ea/- \$200 for all. All black, all work fine, about 10 yrs old. U-Haul. 925-461-5093

TV Stand, fruitwood finish. 30.5h x 31w x 17.5d. Roll-out shelf for VCR; storage below. \$40/BO. 925-447-2905

## MISCELLANEOUS

Vermeer 252 Stump Grinder. Used in part time business. Like new condition 150 hours asking 7,999.00 OBO. 925-443-6010

Century Brevara Child Booster Seat for use with children 30-60 lbs. Use with your car seatbelt. \$25.00 925-447-7160

GARAGE SALE - Saturday 3/15/03 Entire Neighborhood. Cobblestone Community, entrance on Capstone and Crestwood Streets in Manteca. 209-403-4942

Chipper/Shredder, heavy duty, excellent cond., under 20 hours use, \$150, 209-575-4190

Combi stroller, holds infant carseat. Large basket, snack tray and more. Barely used. \$90. 925-454-0877

Beautiful black leather womens jacket. Hardly worn. 50.00 A must see. 510-582-2938

K-NEX radio controlled robot kit. \$30. 925-454-0877

Spa cover, 7ft octagonal. Like new, still under warranty. Meets code. Paid \$270, asking \$50 925-828-8939

Ellen DeGeneres-2 tickets for March 25th @ Davies Hall in SF. Row P. \$100.00 for both.(face value) 925-447-2821

Nascar collectables, Dale Earnhardt, Jeff Gordon, and Adam Petty. Sell all or part. 1/24th and 1/64th scale, call for details. 209-832-7566

Metal drafting table. Tilts and elevates. \$50.00 OBO. 925-456-3010

Diesel tractor, 4-WD Yanmar 1300D, 2-cyl., 16h.p., 3-point, 8-speed trans, tiller attachment--Good shape! \$3950 925-525-4222

Dance Revolution DDR Konamix metal pad for PS2. New in box. \$100 925-455-4057

Work bench, 6 ft x 2.5 ft, lots of drawers, lighted overhead bridge. \$125 925-447-5194

## MOTORCYCLES

Motorcycle CARRIER - for small or mid bike. Two brackets for the tires clamp easily to a real bumper. Adjustable. Only \$25 both. 925-447-7070

1982 - Honda GL1100 Interstate, black, excellent condition, many extras including trailer, cover, helmets, 24700 mi, \$1400 OBO. 925-373-7654

1985 - Kawasaki ZL900 Eliminator, garage kept, orig owner, needs some work, call for details. \$1000.00 OBO, must sell 925-634-8134

1999 - 1999 Honda CR250, excellent condition, new graphics, gripper seat, 2 FMF pipes and silencers, skid plate, Pro Tapers. \$3500.00 obo 209-815-6962

1987 - Honda Odysee (Dune Buggy), new 250cc, 2 cycle engine. 18 inch wheels. Runs perfect. \$1800 209-612-0231

2002 - H.D. FXDL, DYNA LOW RIDER, mint condition, 5,000 miles, black, too many extras to list, \$19,500, OBO 925-373-1504

## MUSIC INSTRUMENTS

Ovation 1112 Custom Balladeer Guitar, I bought new in 1983, Martin Thinline pickup. Very Good Cond. Chipboard Case. \$350

925-455-8006

Piano, Currier, Console(41 inches tall), Pecan Finish \$250.00 OBO 925-443-7215

## PETS & SUPPLIES

FREE pet bird. Cockatiel, female, pretty coloring. Cage and stand included. Needs more attention that we can provide. 925-838-0546

Free to good home, needs a loving family. Pure bred Yellow Lab (Angel) - Female - 7 mths. with papers, shots and spayed. 925-684-2532

Western pleasure show saddle. One of the last saddles made by Rowell. Berry pattern silver. Matching breast plate. \$2500/B.O. 925-449-1128

Pet Sitting 925-829-1794

2 Indian Ringneck birds (blue) with large cage & toys \$250 obo. 209-825-2048

## RECREATION EQUIPMENT

Stair Stepper \$15. 209-833-1201

Brunswick Pool Table 8ft x 4ft. Slate. Great Condition. \$500. 925-456-0483

BACKPACKING TENTS - Eureka Backcountry 2. 5lbs 38 sq ft. Top quality! Never Used. I have 3 still in box. Retail \$173-now \$140. 925-829-8974

Deluxe one-person trampoline. Excellent condition. \$40.00/BO. 925-449-1128

Pool Table - Olhausen 9 ft. Eclipse, drop pocket, 1 inch. Slate. \$1,100.00 - OBO 925-828-1660

Ski carrier. Clamps onto rain gutters, holds 4 to 6 pairs. Key-lock security \$50.00 925-443-2245

## RIDESHARING

Express your commute, call 2-RIDE for more information or visit <http://www.r.lnl.gov/tsmp>.

Lafayette - LaMorinda Vanpool (also Walnut Creek stop at Rudgear Rd), reclining seats, reading lights, 7:45-4:45, \$100/mo (pretax reduction available) 925-943-6701, ext. 2-3005

Union City - Looking for a female to share a ride with - 2-4 days a week. I can drive alternately. 510-324-0780, ext. 2-5764

Orinda - Lamorinda carpool seeks 4th rider/driver. Lab hours 8:10am-5pm. Meets near Highway 24 and St. Stephens. 925-253-0498, ext. 2-9823

## SERVICES

SUPPORT GROUP for BETTER RELATIONSHIPS! CoDA Codependents Anonymous Meets Tuesday Noon B571/R2016 Just come or Info 925-447-7070

HOUSECLEANING, efficient, reliable, trustworthy, and friendly. References available upon request. 925-443-1632

Drafting Service for remodeling/new residence. Also providing assistance to architects/engineers. Very affordable rates. Call for estimates. 510-967-9395

Floor covering services - linoleum and laminate. 20+ years experience. Call for estimates. 925-372-5542

## SHARED HOUSING

Livermore - Room for rent in 3 bedroom house. \$550/month + 1/3 utilities. Available now! Call 925-606-0316 or 925-895-6497

Livermore - 1 room for rent in a 3 bedroom house. \$600 deposit. \$600 total a month. Available April 1st. 925-895-8868

Martinez - two rooms near fwy, dsl, cable, phone, furn, wash/dryer, nonsmoking, share w/ 2 - 3 adults. \$500 + uts per room. Leave message only. 925-837-6135

Livermore - Room available with private bathroom in two bedroom apartment across the street from lab. Rent \$650 Room available NOW! 925-447-3483

Livermore - - Master bdrm for rent w/ pvt bath in Springtown home. Full priv, fwy

access, 4 miles to Lab. N/S, N/P. \$550 & 1/2 util. 925-200-9976

Livermore - furnished room for rent. Mature adult. Clean and quiet. \$550.00/month. Share utilities 1/3. Deposit required. 925-449-1128

Livermore - Room avail. for short/long term. \$535/mo, \$300 dep, 1/3 util, f/p, n/s, n/p, already set-up for priv. phone and dig cable. Pls lve message 925-292-3356

Room for Rent - April 1st \$600/Month, includes utilities, non-smoker please. 925-294-2882

## TRUCKS & TRAILERS

1987 - Mitsubishi- Mighty Max pickup 2.0. 210k. Runs great. Great around town car and dumps. 925-829-1474

1972 - GMC 3/4 ton, big block, AC, PS, PB, CC, RUNS GREAT, NEW WHEELS & TIRES 209-931-9212

1991 - Jeep Cherokee Limited, 129K Miles \$3000. 209-836-1249

2000 - Silverado LS, 2-wd. Exceptionally clean light pewter pick-up Extended 3-door cab, tonneau cover, 5.3L V8, all extras. 50K miles. \$18,500. 925-634-1606

1989 - Pop-up tent-trailer. Sleeps 6 people. Storage & seat & table. Awning & Ice fridge. \$950 or B/O. 209-874-3910

2001 - 2001 Ford V8 7.3L F250 Super Duty Long bed Turbo Diesel. Low miles lots of extras \$27,630 BO 209-962-5468

1987 - Mitsubishi PU: Great commute car and truck for dumps. 210k, new tires and wheels. \$1800.00 offer. 925-829-1474

1971 - Dodge powerwagon, Forestry model w/8000 Lbs PTO winch. 318 eng. \$1200.00 OBO 925-447-8087

2001 - Toyota Tocomra Pre Runner Xtra cab, Excl. cond, green, 27.8K miles, AC/PS, AM/FM, CD, T/W Prem wheels, hard cover/liner \$18,600 924-830-1821

1972 - GMC 3/4 TON, BIG BLOCK- AC, PS, PB, CC Runs great, New wheels & tires \$4495.00 209-931-9212

## VACATION RENTALS

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. Low LLNL rates for year-round reservations. 925-449-0761

SOUTH LAKE TAHOE - 3 Bedroom 2 bath Chalet, newly remodeled, nicely furnished all amenities, close to all skiing. RESERVE NOW! 209-599-4644

Solana Beach/Del Mar - Oceanfront condo, Delux 2br., 2 1/2 ba., tennis, pool, jacuzzi, gated inside parking, fully equipped, near San Diego attractions 925-443-2271

Vacation at any RCI location (Hawaii, China, England, Canada, Arizona, etc.), resort directory, then call with a date and location of your choice. All Inclusive places also available. 925-449-6048

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. Low LLNL rates for year-round reservations. 925-449-0761

## WANTED

Bass player wanted for 30-something rock band (originals). Practice 2x per month in Livermore, ultimately play gigs. 925-373-3146

Do you have an old Piano that is collecting dust?? I need a piano suitable for a beginner, willing to pay about \$300. 925-600-7328

Install and wire a sump pump. I need someone to wire and install a sump pump under my house in San Ramon. 925-829-8974

Go Kart or mini bike, condition not important, motor or needs work. Willing to pay \$\$ depending on condition. Call if you need to part with 925-634-8134

Lead trumpet player for LLESA Dance Band. Wed. rehearsals, South Cafeteria. 7:30-9:30pm 925-443-2245

## NEWS OF NOTE



## Hearings focus on UC's management of DOE labs

The University of California and the three DOE national labs it manages received strong support from a collective of California and New Mexico state legislators Tuesday, during a special hearing in Sacramento. On Wednesday, a second hearing took place in Washington, D.C. before the House Energy and Commerce's Subcommittee on Oversight and Investigations regarding UC's management of LANL and that lab's business practices.

The Tuesday hearing, chaired by state Sen. Denise Duchenev (D-Chula Vista), featured testimony by UC President Richard Atkinson, UC Vice President for Laboratory Management Bruce Darling, UC San Diego Chancellor Robert Dynes, the directors of the three labs — Michael Anastasio, Charles Shank (LBNL) and Pete Nanos (acting, LANL) — and representatives of Los Alamos and Livermore employee groups.

While the hearing focused on the recent issues regarding business and administrative practices at Los Alamos, some representatives of employee groups again raised the issues of seeking enhanced protection for whistle blowers and ensuring that all Lab employees are provided the full protection benefits of the UC personnel system. Another employee representative presented a letter to DOE Secretary Spencer Abraham signed by more than 2,000 Livermore Lab employees, who strongly support continuing UC management of the Laboratory.

A portion of the day was also spent exploring the critical scientific and technological work conducted at the three labs and the opportunities for pioneering research afforded by the UC contract to manage the labs.

Maria Pavallacini, a professor at UC Merced, the UC system's newest campus, cited the labs' — particularly Livermore's — dissemination of technology to UC systems as "a hallmark of UC-laboratory relationships." Pavallacini said her own research in genetics would have been stymied were it not for the resources she used at Livermore. She also said the Lab has been valuable to UC Merced's ability to recruit faculty and staff.

"The potential for collaboration with world-class scientists and the chance to use sophisticated instrumentation has been a powerful recruitment tool."

The collective of California and New Mexico state legislators agreed with the testimony, citing overarching support for the continuation of the UC contract, despite some members of Congress who have suggested competing the lab management contract in the wake

of recent problems at Los Alamos.

"I was a little flabbergasted that this situation has come to this point," said state Sen. Don Perata (D-Oakland/Livermore). "This lab is internationally known, and the work that is done there is unprecedented... We should not be fooling around with something this important at this point in our history."

UC President Atkinson told the committee that the

“

*At all three laboratories, we have thousands of honest and hard-working scientists, engineers, technicians and support personnel who are making a major contribution to our nation's security.*

—Richard Atkinson”

”

University is committed to taking all necessary steps to restore the confidence of the state legislatures, Congress, the Department of Energy and the public in UC's management of LANL, which he described as a "vital national resource." He summarized the various management changes UC has made at LANL.

Atkinson called the scientific and technical work done at the three labs "particularly important now given current world events," and he commended the integrity and dedication of the laboratories' employees.

"At all three laboratories, we have thousands of honest and hard-working scientists, engineers, technicians and support personnel who are making major contributions to our nation's security."

Each laboratory director then pointed to contributions their staffs are making to homeland security, and stressed the importance of the relationship between the laboratories and University. Anastasio gave brief descriptions of HANAA, the Lab's hand-held detector of biological pathogens, and Cryo3, a joint project between LLNL and LBNL to detect radioactive materials that could be smuggled across a border or through

a port.

Anastasio also acknowledged the necessity for sound business practices at all UC labs. "We believe we are being held accountable by UC, DOE, the Legislature, Congress and the public. We have a special mission and we have a special environment in which we are allowed to do that mission. It enables our creativity and our excellence. But there is a special requirement that we be held to very high standards. We understand that."

California and New Mexico legislators asked a range of questions, particularly methods for employees to bring forward any concerns. All three lab directors outlined a number of systems and hotlines that have been set up to report improprieties and told of their personal efforts to provide open communication.

With regard to LANL, Darling, speaking via satellite from Washington, D.C., re-emphasized UC's determination "to raise the business practices of the laboratory to the same quality as the science and technology programs." It was a message he carried over to the Wednesday hearing before the House Energy and Commerce's Subcommittee.

Others who testified at the Wednesday hearing included current and former LANL officials, who defended their actions in the dismissals of investigators Glenn Walp and Steve Doran, disputed the perception of widespread illegal activity at LANL and denied any attempt on their part to withhold information.

In response to committee members' questions, Darling pledged to pursue any new information about employee concerns at the laboratories and expressed support for acting Director Pete Nanos' efforts to bring about a more open environment at LANL.

"I want to emphasize that the University has not and will not let its unwavering focus on the important business and management issues that we are discussing today distract the laboratory from fulfilling its mission to the nation. The work being done at Los Alamos today is as important as at any time in the 60 years that the University has had the privilege and responsibility of managing the laboratory. We remain honored to oversee this important work on behalf of the nation."

For the complete testimony of Atkinson and Darling at Tuesday's Sacramento hearing, see <http://www.universityofcalifornia.edu/news/losalamos/>. For the complete testimony of Darling at the Wednesday House hearing, see <http://www.universityofcalifornia.edu/news/losalamos/0303hearing.html>.

### AGNEW

Continued from page 1

recounted. "It was heavy, slippery and dirty."

Fermi often pitched in with the shoveling. He had escaped the repressive fascist regime in his native Italy in 1938 when he went to Sweden with his family to receive the Nobel Prize. He was technically considered "an enemy alien" while he supervised the U.S. team that ultimately built the first man-made nuclear chain reaction.

But Fermi also became a close friend. He moved in with Agnew for several months, and didn't mind being the subject of a home movie (which Agnew shared with his LLNL audience), in which he mowed Agnew's lawn. "Fermi loved mechanical things and he really enjoyed that lawn mower," he said.

Agnew also admired, or at least was fascinated by Fermi's fashion sense. Illustrating his point with a slide of the Los Alamos scientists relaxing at a dance, Agnew pointed out that Fermi wore a tweed suit with zippers on every pocket. As for a substantial white smudge on Fermi's bottom, Agnew explained that a bench had been freshly whitewashed for the occasion, but Fermi had not gotten the message.

Turning serious, Agnew discussed the aftermath of the Hiroshima and Nagasaki bombs. He said he disagrees with LLNL Director Emeritus



Edward Teller who now believes the United States should have set off a demonstration bomb to prove to Japan the incredible destructive power that would be unleashed if the emperor did not surrender.

The problem, according to Agnew, was that only two bombs existed, and it would have taken weeks or even months to build more, and many more lives would have been lost during that period.

Dropping both of them in rapid succession gave the impression that the United States had additional atomic bombs in its arsenal. Agnew said he firmly believes that although using the weapons on the Japanese cities caused widespread destruction and loss of life, ultimately it prevented a continuation of the war, and far wider casualties on both sides.

PHOTO COURTESY OF HAROLD AGNEW

Agnew (right) and a guard posed on the Pacific island of Tinian as they held a box containing the core of the Nagasaki bomb. After the war ended, the FBI forced Agnew to scratch the surface of the photo to obliterate any sign of the container.

## VALUES

Continued from page 1

directly in front of my poster paper, haranguing me and anyone else who tried to read the paper. For three hours, I endured noisy protests, diversionary arguments and rude, personal attacks. In the end, those not driven away by the obnoxious diatribe realized that there was no sound technical argument in the tirade. Simply trying to win by intimidation — i.e., “combat physics” — was the goal of this ambush. The only respite came when Dan Steinberg, one of LLNL’s senior scientists, calmly, but assiduously, took the bully to task for this appalling behavior.

In the end, my tormentor’s position was reduced to a two-fold argument: (1) “Bruce is wrong” (without explanation), and (2) the test failure was “an unresolved mystery.” This was not what one would call a cogent scientific argument.

So, what’s the big deal? In the end, I survived and have prospered in my technical field. Wasn’t this just a “growth experience” that helped make me mentally tough? No, it was not. It was the antithesis of the essential scientific discussion and productive competition of ideas that I had wanted and deserved. Intimidation, which is at the core of “combat physics,” promises neither scientific nor technical advance and aborts useful discussion. Contrary to its proponents’ beliefs, this baptism-of-fire mentality does not advance good science.

The Laboratory must promote new ideas through intense competition. Ideas need to be technically scrutinized through vigorous, civil debate.

Because differences can and will result from these discussions, all of us at the Laboratory need to maintain a professional demeanor when debating and avoid transforming honest disagreements

same as rigorous debate; it is merely the outburst of a disingenuous or short-tempered bully wearing a mask of reason. Intimidation comes from arrogance, laziness or ignorance. Only debate conducted in an environment of mutual respect and civil behavior can be truly rigorous and productive. Through respectful discussion, we can mutually develop better ideas and promote personal and professional growth of people.

It is the responsibility of every staff member to make civility and intense, intellectual competition inseparable. If someone believes that civility has failed, they should first discuss this with the individuals involved. Colleagues should feel responsible to mediate the situation. If a reasonable resolution cannot be reached, line management may need to get involved.

Line management, in turn, needs to be ready to deal with combative behavior as a performance issue. Further, the ability to compete respectfully is a leadership quality to be looked for in hiring, evaluation, ranking and promotion. Managers, supervisors and others in positions of authority must “walk the walk” in promoting intense, constructive competition. In that same spirit, staff at all levels should be able to discuss issues without fear of intimidation or that those discussions could result in retaliation.

Everyone at the Laboratory must contribute to the overall success of our mission. This mission can best succeed in an atmosphere where all levels of staff are valued and where we treat each other with respect. In the next column of this series on values, Associate Director for Energy and Environment C. K. Chou will address the related value of “treating each other with dignity.”

## We value

- Passion for Mission
- Integrity and responsible stewardship of the public trust
- Simultaneous excellence in science & technology, operations, and business practices
- Balancing innovation with disciplined execution
- Teamwork while preserving individual initiative
- Intense competition of ideas with respect for individuals
- Treating each other with dignity
- A high-quality, motivated workforce with diverse ideas, skills, and backgrounds
- Rewarding and recognizing performance
- Commitment to the collective success of the Laboratory

about science into personal arguments.

My anecdote is indicative of a darker side of human nature, which the Laboratory community cannot accept if we are to succeed in our mission of science serving the nation. Intellectual intimidation by verbally “knocking heads” is not the

## EAST AVE

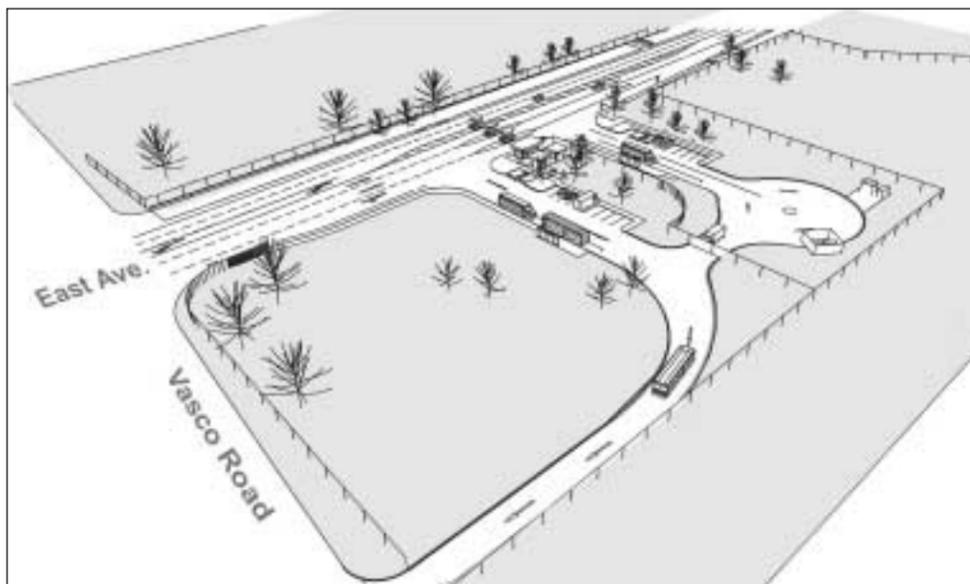
Continued from page 1

East Avenue, installing control point kiosks, embedding pop-up barriers in the roadway and building a transfer area on the Sandia property at the southwest corner of Vasco Road and East Avenue.

The transfer area will consist of a “super kiosk” for badging and permits, visitor parking as well as stops and turn-arounds for public and Laboratory buses. A truck inspection station will be built just north of East Avenue near Greenville Road, on Livermore Lab property, to inspect all trucks making deliveries to Sandia and the Lab. The inspection station will be located in what is now the parking area near Bldg. 619.

The East Avenue entrance at Vasco Road will look very similar to the Laboratory’s Westgate Drive entrance, with three inbound vehicle lanes, each with a kiosk for Protective Force officers. An important security feature at each entrance will be pop-up security barriers capable of stopping trucks or cars attempting to run the checkpoint. Similar barriers are used to protect government facilities and embassies worldwide.

“Visible construction activities will start in the next week with road improvements,” said Bill Huddleston, LLNL project manager. “We’ve planned construction activities to minimize disruption to East Avenue traffic. But, over the next three months there may be some delays. We ask that employees pay careful attention to roadway changes and construction



COURTESY OF SANDIA/LIVERMORE

An artist’s rendition of what the security officer kiosks and the visitor and turnaround area at the southeast corner of East Avenue and Vasco Road will look like when completed.

signs.”

Project bulletins and updates will be published in *NewsOnLine* and *Newsline* throughout the construction period.

In concurrence with the National Nuclear Security Administration, the labs have designated the areas along East Avenue as the “East Avenue Corridor Property Protection Area.” Access to the corridor will be limited to those with an official LLNL, Sandia, contractor, NNSA and DOE badge or those on an authorized access list. Those that may add names to the access list include holders of a DOE standard (Q, L, or P) badge or a cleared (Q or L) LLNL or SNL site-specific employee or contractor badge. More detailed information about authorization protocols and the development of a user-friendly Web-based system for authorizing access to the East Avenue corridor will be provided in upcoming editions of *Newsline* and *NewsOnLine*.

Discussion of controlling access to East Avenue is not new and dates back to well before Sept. 11, 2001, according to Wentz, who noted

that the bombing of the federal building in Oklahoma City and attacks on U.S. facilities in Saudi Arabia and Africa had raised security concerns.

Controlling access to East Avenue became a high priority after the events of September 11. The Lab and Sandia formed a joint project team to start the conceptual and design process.

“This has been a collaborative team effort that will continue to benefit security at both laboratories,” said Den Fisher, associate director for Safety, Security and Environmental Protection. “There’s also been great cooperation between Alameda County, the City of Livermore and officials from the two labs to make this happen. Controlled access will allow the labs to rapidly respond to changing security threats.”



Newsline  
UC-LLNL  
PO Box 808, L-797  
Livermore, CA 94551-0808